## **CLAIMS**

I claim:

- An injection plate for positioning in a stream of fuel and air moving from a 1. 1 carburetor to the inlets of fuel runners of an internal combustion engine for injecting fuel 2 and nitrous oxide into the fuel runners, said injection plate comprising: 3 4 a frame defining a frame opening for surrounding the stream moving from the carburetor, said frame having a fuel passage and a nitrous oxide passage; 5 6 a fuel injection tube extending across said frame opening and mounted at its ends to said frame and having an external surface and an internal passage in communication 7 with said fuel passage of said frame: 8 a nitrous oxide injection tube extending across said frame opening and mounted at 9 its ends to said frame and having an external surface and an internal passage in 10 11 communication with said nitrous oxide passage of said frame; and 12 a plurality of nitrous oxide delivery ports formed in said nitrous oxide injection tube, each said nitrous oxide delivery port configured to direct nitrous oxide in a direction 13 14 to flow toward the inlet of one of the runners.
- The injection plate of claim 1, wherein at least some of said plurality of
  nitrous oxide delivery ports of said nitrous oxide tube have a bore with an axis extending
  from said nitrous oxide tube in a direction to direct nitrous oxide toward one of the
  runners.

1	3.	The injection plate of claim 2 wherein some of said nitrous oxide delivery
2	ports are oriented with their axes coaxial with respect to the longitudinal axis of said	
3	nitrous oxide injection tube.	
1	4.	The injection plate of claim 2, wherein said fuel injection tube and said
2	nitrous oxide	injection tube extend parallel to each other and are positioned in sequence
3	along the stream.	
1	5.	The injection plate of claim 4, wherein the axes of said bores of said
2	nitrous oxide	delivery ports extend to opposite sides of said fuel injector tube.
1	6.	The injection plate of claim 1, wherein each of said nitrous oxide delivery
2	ports is config	gured to direct nitrous oxide in a direction to flow primarily toward a single
3	one of the run	ners.
1	7.	The injection plate of claim 1 and wherein said fuel injection tube includes
2	a plurality of	fuel delivery ports, each of said fuel delivery ports configured to direct fuel
3	in a direction to flow with the nitrous oxide from one of said nitrous oxide delivery ports	
4	toward one of the runners.	
1	8.	The injection plate of claim 7, wherein said nitrous oxide delivery ports
2	and said fuel delivery ports are characterized by having been formed by a ball nose end	
3	mill and a rectilinear bit.	

1	9. The injection plate of claim 7, wherein at least some of said nitrous oxide		
2	delivery ports and said fuel delivery ports have a first bore intersecting its said tube		
3	passage and a second bore intersecting its said external surface, and said second bore is		
4	oriented toward one of the runners for directing flow to the runner.		
1	10. An injection plate for positioning in a stream of fuel and air moving to the		
2	inlets of fuel runners of an internal combustion engine for injecting fuel and nitrous oxide		
3	into the fuel runners, said injection plate comprising:		
4	a frame defining a frame opening for surrounding the stream of fuel and air		
5	moving toward the fuel runners;		
6	a nitrous oxide injection tube extending across said frame opening and mounted at		
7	its ends to said frame and having an external surface and an internal passage for		
8	communication with a source of nitrous oxide; and		
9	a plurality of nitrous oxide delivery ports formed in said nitrous oxide injection		
10	tube, each said nitrous oxide delivery port configured to direct nitrous oxide in a direction		
11	to flow primarily toward the inlet of one of the runners.		
1	11. The injection plate of claim 10, wherein		
2	at least some of said nitrous oxide delivery ports include a first hore intersecting		

said internal passage of said injection tube, and a second bore intersecting said first bore

and intersecting said external surface of said injection tube, and

3

- said second bore oriented for emitting nitrous oxide primarily toward one of the 5 6 inlets of a fuel runner of a combustion engine. 1 12. A process of injecting nitrous oxide into runners that carry a fuel stream to 2 cylinders of an internal combustion engine comprising: 3 moving nitrous oxide along a nitrous oxide injection tube, 4 distributing the nitrous oxide into a plurality of nitrous oxide delivery ports formed in the nitrous oxide injection tube, 5 6 as the nitrous oxide passes through each nitrous oxide delivery port, controlling 7 the direction of the nitrous oxide from each delivery port to move toward a different one 8 of the runners. The process of claim 10, and further including the step of moving fuel 1 13. 2 along a fuel injection tube, 3
- distributing the fuel into a plurality of fuel delivery ports formed in the fuel
- injection tube, 4
- 5 as the fuel passes through the fuel delivery ports, directing the fuel primarily
- toward the nitrous oxide passed through the nitrous oxide delivery ports. 6